

Prepared for:
NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBN Softgel Formulation

Batch ID or Lot Number: N331S	Test: Potency	Reported: 04Aug2023	USDA License: N/A
Matrix: Solution	Test ID: T000251361	Started: 02Aug2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 01Aug2023	Status: N/A

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.221	0.834	1.580	1.70	Density = 0.92g/mL
Cannabichromenic Acid (CBCA)	0.202	0.763	ND	ND	
Cannabidiol (CBD)	0.772	2.223	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	0.792	2.281	ND	ND	
Cannabidivarin (CBDV)	0.183	0.526	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.331	0.951	ND	ND	
Cannabigerol (CBG)	0.125	0.473	1.920	2.10	
Cannabigerolic Acid (CBGA)	0.524	1.979	ND	ND	
Cannabinol (CBN)	0.163	0.618	29.140	31.70	
Cannabinolic Acid (CBNA)	0.357	1.350	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.624	2.358	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.567	2.141	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.502	1.897	ND	ND	
Tetrahydrocannabivarin (THCV)	0.114	0.431	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.443	1.674	ND	ND	
Total Cannabinoids			32.640	35.50	
Total Potential THC			0.000	0.00	
Total Potential CBD			0.000	0.00	

Final Approval



Karen Winternheimer
04Aug2023
12:26:00 PM MDT

PREPARED BY / DATE



Sam Smith
04Aug2023
12:27:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1fad4df7-5224-4bae-bbe8-884c2438477b>

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDA *(0.877)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



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Prepared for:
NULEAF NATURALS


1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBN Softgel Formulation

Batch ID or Lot Number: N331S	Test: Heavy Metals	Reported: 08Aug2023	USDA License: NA
Matrix: Finished Product	Test ID: T000251364	Started: 08Aug2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 01Aug2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.83	ND	
Cadmium	0.05 - 4.62	ND	
Mercury	0.05 - 4.52	ND	
Lead	0.04 - 4.40	ND	

Final Approval



Sam Smith
08Aug2023
03:37:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
08Aug2023
03:40:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/476eb279-af07-4697-8156-85eaa78af0b5>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Prepared for:

NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBN Softgel Formulation

Batch ID or Lot Number: N331S	Test: Microbial Contaminants	Reported: 07Aug2023	USDA License: NA
Matrix: Finished Product	Test ID: T000251363	Started: 02Aug2023	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 01Aug2023	Status: NA

Microbial

Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brianne Maillot
06Aug2023
10:39:00 AM MDT

PREPARED BY / DATE



Eden Thompson-Wright
07Aug2023
09:39:00 AM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/5f379dec-3974-4927-8e6b-af64953584c7>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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NULEAF NATURALS

1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBN Softgel Formulation


Batch ID or Lot Number: N331S	Test: Pesticides	Reported: 03Aug2023	USDA License: NA
Matrix: Concentrate	Test ID: T000251362	Started: 02Aug2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 01Aug2023	Status: NA

Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	405 - 2594	ND
Acephate	38 - 2739	ND
Acetamiprid	41 - 2701	ND
Azoxystrobin	46 - 2690	ND
Bifenazate	42 - 2685	ND
Boscalid	42 - 2763	ND
Carbaryl	38 - 2710	ND
Carbofuran	44 - 2694	ND
Chlorantraniliprole	39 - 2719	ND
Chlorpyrifos	41 - 2733	ND
Clofentezine	294 - 2738	ND
Diazinon	301 - 2710	ND
Dichlorvos	279 - 2725	ND
Dimethoate	43 - 2691	ND
E-Fenpyroximate	308 - 2765	ND
Etofenprox	43 - 2718	ND
Etoxazole	318 - 2725	ND
Fenoxycarb	42 - 2714	ND
Fipronil	51 - 2692	ND
Flonicamid	43 - 2744	ND
Fludioxonil	320 - 2720	ND
Hexythiazox	43 - 2750	ND
Imazalil	296 - 2740	ND
Imidacloprid	42 - 2739	ND
Kresoxim-methyl	44 - 2723	ND

Pesticides	Dynamic Range (ppb)	Result (ppb)
Malathion	303 - 2745	ND
Metalaxyl	43 - 2698	ND
Methiocarb	40 - 2731	ND
Methomyl	39 - 2736	ND
MGK 264 1	185 - 1690	ND
MGK 264 2	112 - 1093	ND
Myclobutanil	30 - 2725	ND
Naled	41 - 2674	ND
Oxamyl	40 - 2747	ND
Pacllobutrazol	43 - 2700	ND
Permethrin	307 - 2723	ND
Phosmet	43 - 2685	ND
Prophos	317 - 2737	ND
Propoxur	42 - 2716	ND
Pyridaben	313 - 2703	ND
Spinosad A	30 - 2095	ND
Spinosad D	72 - 666	ND
Spiromesifen	302 - 2737	ND
Spirotetramat	327 - 2733	ND
Spiroxamine 1	17 - 1242	ND
Spiroxamine 2	21 - 1511	ND
Tebuconazole	318 - 2716	ND
Thiacloprid	40 - 2696	ND
Thiamethoxam	39 - 2740	ND
Trifloxystrobin	42 - 2699	ND

Final Approval



Karen Winternheimer
03Aug2023
01:15:00 PM MDT

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Sam Smith
03Aug2023
01:18:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/910de7b7-def3-4547-9c04-404e5f5b1519>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Prepared for:
NULEAF NATURALS


1550 LARIMER ST. #964
DENVER, CO USA 80202

NuLeaf Naturals CBN Softgel Formulation

Batch ID or Lot Number: N3315	Test: Residual Solvents	Reported: 03Aug2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000251365	Started: 02Aug2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 01Aug2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	96 - 1914	ND	
Butanes (Isobutane, n-Butane)	188 - 3757	ND	
Methanol	58 - 1164	ND	
Pentane	95 - 1893	ND	
Ethanol	93 - 1868	ND	
Acetone	95 - 1906	ND	
Isopropyl Alcohol	97 - 1933	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	95 - 1895	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	96 - 1912	ND	
Toluene	17 - 344	ND	
Xylenes (m,p,o-Xylenes)	126 - 2512	ND	

Final Approval



Karen Winternheimer
03Aug2023
01:42:00 PM MDT

PREPARED BY / DATE



Sam Smith
03Aug2023
01:46:00 PM MDT

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Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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